































## REFERENCES

- [1] C. Baratto, G.Sberveglieri, A.Onischuk, B.Caruso and S. D. Stasi , “Low temperature selective NO<sub>2</sub> sensors by nano structured fibres of ZnO”, *Sensors Actuators B*, Vol.100 February 2004, pp.261-265.
- [2] P.K.Basu, P.Bhattacharyya, N.Saha, H.Saha and S.Basu, *Sensor Letters*, Vol.6, February 2008, pp. 219-225.
- [3] J. F. Chang, H. H. Kuo, I. C. Leu and M. H. Hon, “The effect of thickness on ZnO thin film CO gas sensor”, *Sensors Actuators B*, Vol.84, May 2002, 258-264.
- [4] S.Basu, A.Dutta, “Modified heterojunction based on zinc oxide thin film for hydrogen gas-sensor application”. *Sens. & Actuators B*, Vol. 22 , April 1994, pp.83-87.
- [5] K.Maeda, M. Sato, I.Niikura, T.Fukuda, “Growth of 2 inch ZnO bulk single crystal by the hydrothermal method”, *Semicond. Sci. Technol.*, Vol.20, October 2005, pp. 49-54.
- [6] L.C. Chao, P.C. Chiang, S.H. Yang, J.W. Huang, C.C. Liao, J.S. Chen, and C.Y. Su, “Zinc oxide nanodonor prepared by vapor-phase transport process” *Appl. Phys. Lett.*, Vol.88, June 2006, pp. 251111-13.
- [7] P. Bhattacharyya, P.K. Basu, C. Lang, H. Saha, S. Basu, “Noble metal catalytic contacts to sol-gel nanocrystalline zinc oxide thin films for sensing methane”, *Sensors and Actuators B*, Vol.129 September 2007, pp. 551–557.
- [8] A.Sengupta, S.Maji, H.Saha, “CBD Grown aligned ZnO nanorods based methane sensor and the effect of Pd sensitization” , *Advanced Sci.Lett.*, Vol.3, December 2010, pp. 385-392.
- [9] P.K.Basu, S.K.Jana, H.Saha, “Low temperature methane sensing by electrochemically grown and surface modified ZnO thin films”.S.Basu, *Sensors and Actuators B*, Vol.135, July 2008, pp.81-88.
- [10] V. R. Shinde, T.P. Gujar, C.D.Lokhande, “Enhanced response of porous ZnO nanobeads towards LPG : Effect of Pd sensitization”, *Sensors and Actuators B*, Vol.123, September 2007, pp.701-706.
- [11] T. J. Hsueh, S.J.Chang, “Highly sensitive ZnO nanowire ethanol sensor with Pd adsorption”, *Appl.Phys.Lett.* Vol.91, July 2007, pp.053111-13.

- [12] A.P.Chatterjee,P.Mitra,A.K.Mukhopadhyay, “Chemical deposition of ZnO films for gas sensors”, J. of Mat. Science, Vol.34, March 1999,pp.4225-4231.
- [13] P.Mitra, A.P.Chatterjee,H.S.Maiti, “chemically deposited zinc oxide thin film gas sensor”,J. of Mat. Science , Vol.9, June 1998, pp. 441-445.
- [14] H.Yoshiki,K.Hashimoto,A.Fujishima, Met. Finish Vol.94,1996, pp. 28-29.
- [15] P. Mitra and H. S. Maiti, “A wet-chemical process to form palladium oxide sensitiser layer on thin film zinc oxide based LPG sensor”Sens. Actuators B. ,Vol.97,June 2003, pp.49-58.
- [16] P. Bhattacharyya, S. Maji, S. Biswas, A. Sengupta, T. Maji, H. Saha, “Palladium Surface Modification of Nanocrystalline Sol-Gel derived Zinc Oxide Thin Films and its Effect on Methane Sensing”, Sensors & Transducers, Vol.110, November 2009, pp. 38-46.
- [17] M. J. Hudson, J.A. Knowles, “Preparation and Characterisation of Mesoporous, High Surface Area Zirconium(IV) Oxide.”, J. Mater. Chem., Vol.6, January 1996, 89-95.
- [18] H.Ogawa, M. Nishikawa, A. Abe, “Hall measurement studies and an electrical conduction model of tin oxide ultrafine particle films”,J. Appl. Phys., Vol.53, June1982, pp. 4448-4455.
- [19] C. Wang, L.Yin, L. Zhang, D. Xiang, R. Gao, “Metal Oxide Gas Sensors: Sensitivity and Influencing Factors.”,Sensors, Vol. 10, March 2010, pp.2088-2106.